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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
193048 MLRS, MISSILE NUMBER 1134, ROUND NUMBER V-100, 8 JANUARY--ETC(U)
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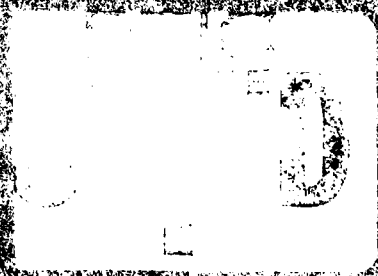
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THE FOLLOWING IS A SUMMARY OF THE
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UNITED STATES ARMY RESEARCH AND DEVELOPMENT COMMAND



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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 19304B MLRS, Missile Number 1134, Round Number V-100 are presented in tabular form.		

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INTRODUCTION

19304B MLRS, Missile Number 1134, Round Number V-100,
was launched from LC-33, White Sands Missile Range (WSMR), New Mexico,
at 1500 MST on 08 January 1980. The scheduled launch time was
1500 MST.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), Wind direction and speed, and cloud cover were made at the LC-33 Met Site at T-0 minutes.

(2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-2 pilot observation at:

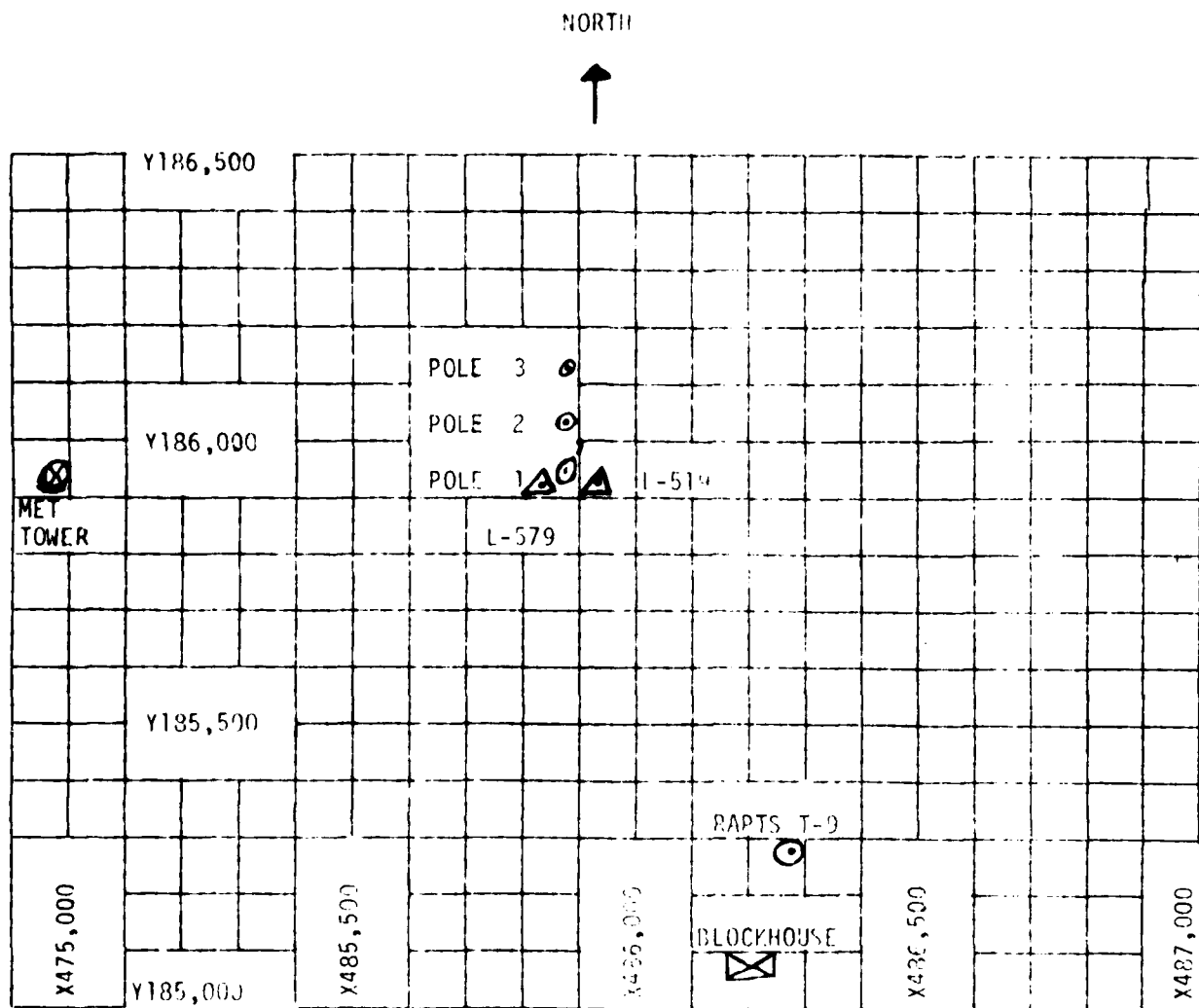
SITE AND ALTITUDE

LC-33	2km
NICK	2km

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 78,000 feet in 500-foot increments.

SITE AND TIME

SMR 1500 MST



1. MET TOWER - 4 Bendix Model T-20 Anemometers at 12 ft, 62 ft, 102 ft, and 202 ft with E/A recorders.
2. POLE ANEMOMETER - Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 - 38.7 ft.
 - (b) Pole #2 - 53.0 ft.
 - (c) Pole #3 - 83.6 ft.
3. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar.

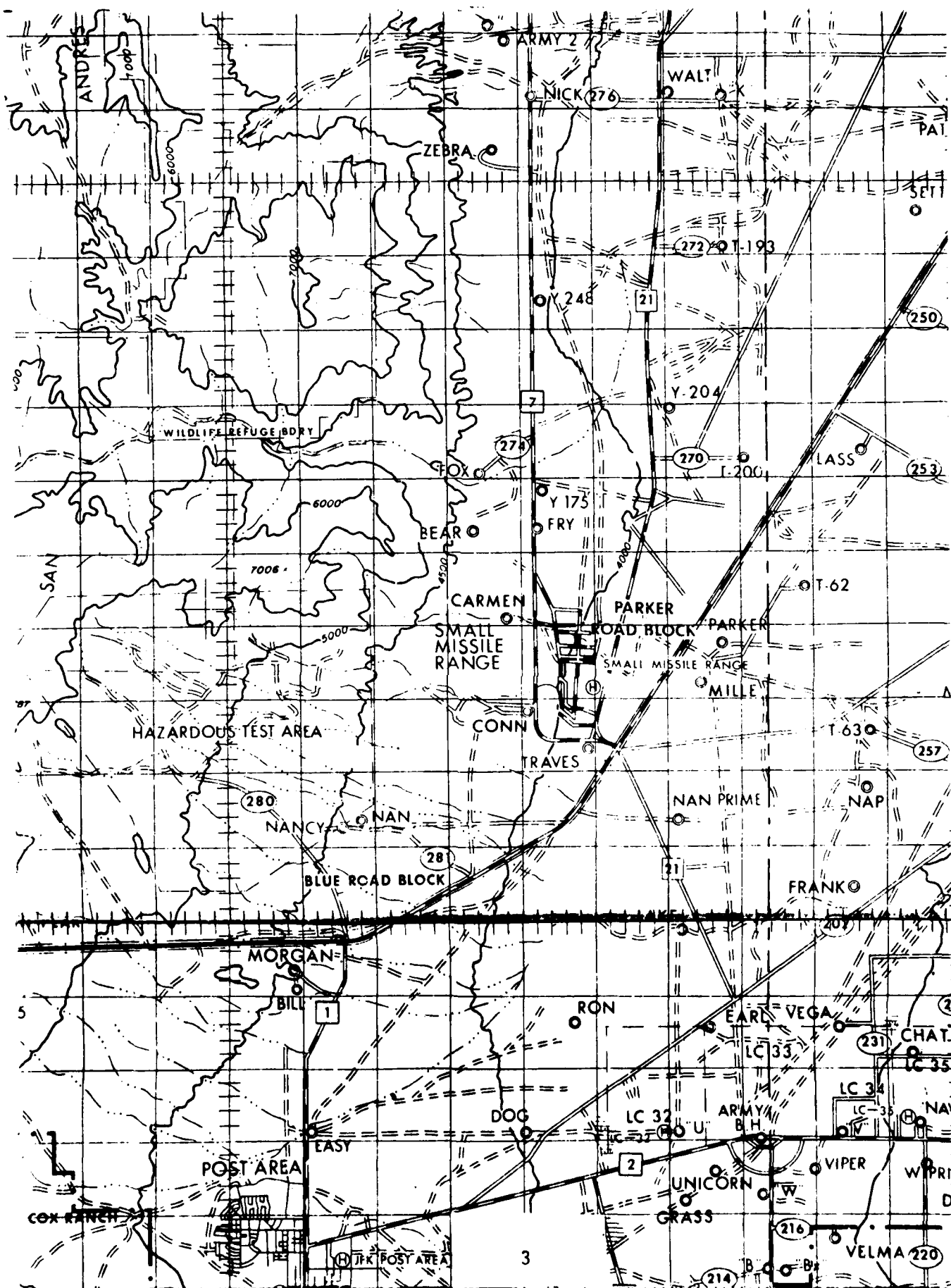


TABLE 1. Surface Observations taken at 1500 MST,
08 January 1980, at LC-33, 19304B MLRS,
Missile Number 1134, Round Number V-100.

ELEVATION	3977.30	FT/MSL
PRESSURE	877.4	MBs
TEMPERATURE	15.4	°C
RELATIVE HUMIDITY	32	%
DEW POINT	-1.1	°C
DENSITY	1056	GM/M ³
WIND SPEED	02	KTS
WIND DIRECTION	220	DEGREES
CLOUD COVER	1	Cu

TABLE 2 LC-33 FIXED POLE ANEMOMETER MEASURED WINDS

POLE #1 X485,874.29 Y185,958.90 H4018.74 38.7 ft. AGL			POLE #2 X485,874.93 Y186,012.00 H4033.57 53.0 ft. AGL			POLE #3 X485,877.29 Y186,116.06 H4063.92 83.6 ft. AGL		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	213	05	-30	210	07	-30	261	05
-20	225	10	-20	222	10	-20	204	MISG
-10	225	09	-10	218	09	-10	190	MISG
0.0	228	11	0.0	228	08	0.0	216	MISG
+10	216	11	+10	222	09	+10	227	MISG

TABLE 3 LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WINDS (202 FT TOWER)

LEVEL #1, 12 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #2, 62 FEET X484,982.64, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	MISG	02	-30	245	05
-20	MISG	03	-20	243	04
-10	MISG	04	-10	242	02
0.0	MISG	05	0.0	235	05
+10	MISG	04	+10	263	05

LEVEL #3, 102 FEET X484,982.64, Y185,057.73, H3983.00 (base)			LEVEL #4, 202 FEET X484,982, Y185,057.73, H3983.00 (base)		
T-TIME SEC	DIR DEG	SPEED KTS	T-TIME SEC	DIR DEG	SPEED KTS
-30	240	05	-30	208	01
-20	234	03	-20	198	01
-10	230	03	-10	240	03
0.0	254	06	0.0	263	04
+10	233	06	+10	220	08

PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM LC-33

DATE 08 January 1980

TIME 1500 MST

TRACKER

COORDINATES (WSTM)

$$X = 486,037.24$$

Y 182,350.16

3977.30

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL.

[illegible][illegible][illegible]

PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM NICK DATE 08 January 1980 TIME 1500 MST

TRACKER COORDINATES (WSTM) X 470,734.56 Y 255,775.64 H 4126.57

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL.

[illegible][illegible][illegible]

STATION ALTITUDE 3997.30 FEET MSL
8 JAN. 80 1500 HRS MST
ASCENSION NO. 6

SIGNIFICANT LEVEL DATA
0080060006
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 5

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
876.8	3997.3	16.2	-0.1	33.0
861.4	4489.3	13.4	-2.1	34.0
850.0	4856.6	12.3	-2.0	37.0
789.2	6878.7	6.5	-2.9	51.0
769.4	7561.5	4.5	-3.3	57.0
700.0	10061.2	-2.5	-4.7	85.0
687.7	10522.7	-3.9	-5.6	80.0
673.4	11068.6	-3.4	-14.7	41.0
655.2	11783.2	-1.4	-23.9	10.0
636.8	12527.1	-2.6	-24.2	17.0
500.0	18666.7	-16.6	-35.8	17.0
400.0	24038.8	-30.0	-46.5	18.0
370.6	25913.2	-34.0	-49.5	19.0
330.0	28456.8	-39.6		
300.0	30581.0	-44.4		
250.0	34515.5	-54.4		
211.0	38023.7	-62.5		
204.6	38663.2	-56.9		
200.0	39138.8	-55.9		
185.8	40682.0	-56.2		
176.6	41725.8	-54.5		
150.0	45169.8	-57.8		
124.8	48952.5	-62.6		
111.2	51386.8	-61.3		
101.8	53101.1	-64.5		
100.0	53461.3	-64.0		
77.5	58604.6	-64.4		
73.8	59610.0	-58.9		
70.0	60705.8	-58.7		
54.8	65690.4	-66.6		
50.0	67561.5	-57.8		
33.6	75786.9	-61.0		
30.0	78139.2	-56.7		

STATION ALTITUDE 3997.30 FEET MSL
8 JAN. 60 1500 HRS MST
ASCENSION NO. 6

UPPER AIR DATA
0080060006
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 7

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
397.3	876.8	16.2	33.0	1052.9	663.6	240.0	9.9	1.000262
400.0	876.7	16.2	33.0	1052.8	663.5	240.0	9.9	1.000262
450.0	861.1	13.4	34.1	1044.5	660.2	238.2	11.8	1.000257
500.0	845.5	11.9	38.0	1030.9	658.5	238.9	13.6	1.000254
550.0	830.2	10.5	41.5	1017.3	656.9	235.9	15.5	1.000251
600.0	815.1	9.0	44.9	1003.9	655.2	238.1	16.8	1.000248
650.0	800.2	7.6	48.4	990.7	653.5	242.5	15.3	1.000245
700.0	785.6	6.1	52.1	977.6	651.8	249.8	14.1	1.000242
750.0	771.2	4.7	56.5	964.7	650.1	257.5	13.4	1.000239
800.0	756.7	3.3	61.9	951.4	648.5	263.1	12.9	1.000236
850.0	742.6	1.9	67.5	938.3	646.8	267.9	12.5	1.000233
900.0	728.7	.5	73.1	925.5	645.2	274.9	12.7	1.000230
950.0	715.0	-.9	78.7	912.8	643.5	281.9	13.1	1.000226
1000.0	701.6	-2.3	84.3	900.4	641.9	291.3	16.1	1.000223
1050.0	688.3	-3.8	80.2	883.5	640.0	296.2	20.1	1.000217
1100.0	675.2	-5.3	45.9	871.1	640.2	293.8	26.4	1.000205
1150.0	662.4	-6.8	25.9	858.9	641.5	289.5	31.1	1.000197
1200.0	649.8	-8.2	16.3	833.6	642.0	283.3	34.3	1.000190
1250.0	637.5	-9.6	17.0	820.3	641.0	279.5	33.3	1.000187
1300.0	625.0	-11.0	17.0	807.7	639.7	270.2	31.7	1.000184
1350.0	612.9	-12.4	17.0	795.3	638.3	274.4	30.3	1.000181
1400.0	600.9	-13.8	17.0	783.1	636.9	273.4	29.5	1.000178
1450.0	589.2	-15.2	17.0	771.2	635.8	273.2	29.3	1.000175
1500.0	577.7	-16.6	17.0	759.4	634.2	273.9	29.0	1.000172
1550.0	566.4	-18.0	17.0	747.8	632.8	273.4	28.8	1.000169
1600.0	555.4	-19.4	17.0	736.4	631.4	270.9	28.8	1.000167
1650.0	544.5	-20.8	17.0	725.3	630.1	278.0	29.4	1.000164
1700.0	533.9	-22.2	17.0	714.2	628.7	278.6	30.2	1.000161
1750.0	523.5	-23.6	17.0	703.4	627.3	277.7	31.5	1.000159
1800.0	513.5	-25.0	17.0	692.7	625.9	276.8	32.7	1.000156
1850.0	503.5	-26.4	17.0	682.3	624.5	275.4	32.8	1.000154
1900.0	493.1	-27.8	17.1	671.6	623.0	274.0	32.9	1.000151
1950.0	483.0	-29.2	17.2	661.1	621.5	272.8	32.6	1.000149
2000.0	473.1	-30.6	17.2	650.7	620.0	271.6	32.4	1.000146
2050.0	463.5	-32.0	17.3	640.5	618.5	269.8	32.8	1.000144
2100.0	453.8	-33.4	17.4	630.4	616.9	268.2	33.5	1.000141
2150.0	444.5	-34.8	17.5	620.6	615.4	267.8	35.6	1.000139
2200.0	435.4	-36.2	17.6	610.9	613.8	267.6	37.8	1.000137
2250.0	426.4	-37.6	17.7	601.4	612.3	268.2	40.3	1.000135
2300.0	417.0	-39.0	17.8	592.0	610.7	268.3	42.0	1.000133

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

UPPER AIR DATA
9000'60000
S M R

STATION ALTITUDE 3997.30 FEET MSL
8 JAN. 80
ASCENSION NO. 6

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	409.1	-28.7	17.9	582.8	609.2	267.7	41.9	1.000130
24000.0	400.6	-29.9	18.0	573.7	607.6	267.3	41.6	1.000128
24500.0	392.1	-31.0	18.3	564.2	606.2	267.4	40.9	1.000126
25000.0	383.8	-32.2	18.5	554.8	604.8	268.3	41.3	1.000124
25500.0	375.6	-33.3	18.8	545.5	603.4	269.7	42.4	1.000122
26000.0	367.6	-34.4	17.7**	536.3	602.0	272.0	44.2	1.000120
26500.0	359.6	-35.5	14.1**	527.0	600.6	274.4	46.3	1.000118
27000.0	351.8	-36.5	10.5**	517.9	599.3	278.9	49.3	1.000116
27500.0	344.2	-37.6	6.9**	508.9	598.0	282.9	52.4	1.000113
28000.0	336.7	-38.6	3.3**	500.1	596.6	284.3	53.9	1.000111
28500.0	329.4	-39.7		491.5	595.2	285.6	55.5	1.000109
29000.0	322.1	-40.8		482.9	593.8	284.8	56.7	1.000108
29500.0	314.9	-42.0		474.5	592.4	284.0	58.0	1.000106
30000.0	307.9	-43.1		466.3	590.9	283.8	60.6	1.000104
30500.0	301.1	-44.2		458.2	589.5	283.7	63.3	1.000102
31000.0	294.2	-45.3		450.2	587.8	283.4	65.6	1.000100
31500.0	287.5	-46.7		442.3	586.2	283.0	67.9	1.000099
32000.0	280.9	-48.0		434.6	584.6	282.4	70.2	1.000097
32500.0	274.5	-49.3		427.1	582.9	281.5	72.6	1.000095
33000.0	268.2	-50.5		419.7	581.2	280.9	74.8	1.000093
33500.0	262.0	-51.8		412.4	579.6	280.8	76.6	1.000092
34000.0	256.0	-53.1		405.3	577.9	280.3	78.1	1.000090
34500.0	250.2	-54.4		398.3	576.2	280.1	78.4	1.000089
35000.0	244.2	-55.5		390.9	574.7	279.9	78.6	1.000087
35500.0	238.4	-56.7		383.6	573.2	279.0	78.0	1.000085
36000.0	232.7	-57.8		376.5	571.7	278.1	77.4	1.000084
36500.0	227.2	-59.0		369.5	570.1	277.0	77.4	1.000082
37000.0	221.7	-60.1		362.6	568.6	275.9	77.2	1.000081
37500.0	216.5	-61.3		355.9	567.1	275.3	76.2	1.000079
38000.0	211.3	-62.4		349.3	565.5	274.7	75.2	1.000078
38500.0	206.2	-63.5		342.4	563.9	273.3	73.5	1.000074
39000.0	201.5	-64.6		335.3	562.3	271.8	72.0	1.000072
39500.0	196.6	-65.7		328.3	560.6	269.6	71.9	1.000070
40000.0	191.9	-66.8		321.3	559.0	267.3	72.2	1.000069
40500.0	187.4	-67.9		314.3	557.3	265.7	72.9	1.000067
41000.0	183.0	-69.0		307.3	555.6	264.6	73.8	1.000065
41500.0	178.7	-70.1		300.3	553.9	264.0	74.6	1.000064
42000.0	174.5	-71.2		293.3	552.2	264.3	75.4	1.000062
42500.0	170.4	-72.3		286.3	550.5	264.6	76.4	1.000061
43000.0	166.4	-73.4		279.3	548.8	265.3	77.6	1.000059

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
 8 JAN. 60 1500 HRS MST
 ASCENSION NO. 6

UPPER AIR DATA
 0080060000
 S M R

GEODETIC COORDINATES
 32.48034 LAT DEG
 106.42307 LON DEG

TABLE 7 (CONT)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
43500.0	162.4	-56.2		260.8	573.8	265.9	78.9	1.000058
44000.0	158.6	-56.7		255.3	573.2	266.1	80.6	1.000057
44500.0	154.9	-57.2		249.8	572.6	266.2	82.3	1.000056
45000.0	151.2	-57.6		244.4	571.9	266.3	83.7	1.000054
45500.0	147.6	-58.2		239.3	571.1	266.4	85.1	1.000053
46000.0	144.1	-58.9		234.2	570.3	266.9	86.1	1.000052
46500.0	140.6	-59.5		229.2	569.5	267.7	86.9	1.000051
47000.0	137.2	-60.1		224.4	568.6	268.8	87.6	1.000050
47500.0	133.9	-60.8		219.7	567.8	270.3	88.2	1.000049
48000.0	130.7	-61.4		215.0	566.9	271.6	88.3	1.000048
48500.0	127.6	-62.0		210.5	566.1	272.5	87.1	1.000047
49000.0	124.5	-62.6		206.0	565.3	273.2	85.8	1.000046
49500.0	121.5	-62.3		200.7	565.7	271.6	83.0	1.000045
50000.0	118.6	-62.0		195.6	566.1	269.8	80.3	1.000044
50500.0	115.7	-61.7		190.6	566.4	267.2	79.2	1.000042
51000.0	112.9	-61.5		185.8	566.8	264.5	78.3	1.000041
51500.0	110.1	-61.6		181.4	566.6	263.4	78.3	1.000040
52000.0	107.5	-62.5		177.8	565.4	262.5	78.4	1.000040
52500.0	104.9	-63.4		174.2	564.2	262.4	78.2	1.000039
53000.0	102.3	-64.3		170.7	563.0	262.0	77.7	1.000038
53500.0	99.8	-64.0		166.2	563.4	262.8	76.2	1.000037
54000.0	97.4	-64.0		162.2	563.4	262.9	73.9	1.000036
54500.0	95.0	-64.1		158.3	563.3	263.1	71.4	1.000035
55000.0	92.7	-64.1		154.4	563.2	263.4	68.4	1.000034
55500.0	90.4	-64.2		150.7	563.2	263.6	65.5	1.000034
56000.0	88.2	-64.2		147.0	563.1	264.0	64.8	1.000033
56500.0	86.0	-64.2		143.5	563.1	264.3	64.2	1.000032
57000.0	83.9	-64.3		140.0	563.0	264.8	62.1	1.000031
57500.0	81.9	-64.3		136.6	562.9	265.2	59.5	1.000030
58000.0	79.9	-64.4		133.3	562.9	265.6	55.7	1.000030
58500.0	77.9	-64.4		130.0	562.9	266.0	49.5	1.000029
59000.0	76.0	-62.3		125.6	565.8	266.4	43.3	1.000028
59500.0	74.2	-59.5		121.0	569.4	264.2	38.5	1.000027
60000.0	72.4	-58.8		117.7	570.3	261.4	33.8	1.000026
60500.0	70.7	-58.7		114.9	570.5	257.1	30.4	1.000026
61000.0	69.0	-59.2		112.3	569.9	251.6	28.3	1.000025
61500.0	67.3	-60.0		110.0	568.8	245.4	26.5	1.000024
62000.0	65.7	-60.8		107.7	567.8	241.6	25.5	1.000024
62500.0	64.1	-61.5		105.5	566.7	237.4	24.7	1.000023
63000.0	62.5	-62.3		103.3	565.0	235.2	24.2	1.000023

UPPER AIR DATA
0080060006
S M R

STATION ALTITUDE 3997.30 FEET MSL
8 JAN. 80 1500 MMS MST
ASCENSION NO. 6

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	61.0	-63.1			101.2	504.6	234.5	23.9	1.000023
64000.0	59.5	-63.9			99.1	503.5	234.6	23.7	1.000022
64500.0	58.1	-64.7			97.1	502.4	239.9	24.0	1.000022
65000.0	56.7	-65.5			95.1	501.4	245.0	24.5	1.000021
65500.0	55.3	-66.3			93.2	500.3	251.4	25.2	1.000021
66000.0	54.0	-67.1			90.4	501.9	258.1	26.3	1.000020
66500.0	52.7	-67.8			87.2	505.0	263.0	27.6	1.000019
67000.0	51.4	-68.4			84.2	508.2	267.2	28.7	1.000019
67500.0	50.2	-68.1			81.2	511.3	270.3	29.9	1.000018
68000.0	49.0	-68.0			79.3	511.5	272.3	30.5	1.000018
68500.0	47.8	-68.2			77.4	511.2	273.6	30.8	1.000017
69000.0	46.6	-68.4			75.6	511.0	275.2	31.1	1.000017
69500.0	45.5	-68.6			73.9	510.7	277.0	31.0	1.000016
70000.0	44.4	-68.7			72.2	510.4	278.7	30.9	1.000016
70500.0	43.4	-68.9			70.6	510.2	280.6	30.8	1.000016
71000.0	42.3	-69.1			68.9	509.9	282.8	31.5	1.000015
71500.0	41.3	-69.3			67.3	509.7	285.0	32.2	1.000015
72000.0	40.3	-69.5			65.8	509.4	287.0	32.8	1.000015
72500.0	39.4	-69.7			64.3	509.1	288.9	33.2	1.000014
73000.0	38.4	-69.9			62.8	508.9	290.7	33.5	1.000014
73500.0	37.5	-60.1			61.4	508.0	291.6	34.0	1.000014
74000.0	36.6	-60.3			60.0	508.4	291.5	34.6	1.000013
74500.0	35.8	-60.5			58.6	508.1	291.3	35.2	1.000013
75000.0	34.9	-60.7			57.2	507.8	290.6	36.3	1.000013
75500.0	34.1	-60.9			55.9	507.6	289.4	37.8	1.000012
76000.0	33.3	-60.6			54.5	508.0	288.4	39.4	1.000012
76500.0	32.5	-59.7			53.0	509.2			1.000011
77000.0	31.7	-58.8			51.5	510.4			1.000011
77500.0	30.9	-57.9			50.1	511.6			1.000011
78000.0	30.2	-57.0			48.7	512.8			1.000011

STATION ALTITUDE 397.30 FEET MSL
8 JAN. 60
ASCENSION NO. 6

MANDATORY LEVELS
0080060006
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE P

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4853.	12.3	-2.0	37.	237.2	13.1
800.0	6506.	7.6	-2.6	48.	242.0	15.3
750.0	8236.	2.6	-3.4	55.	265.4	12.7
700.0	10051.	-2.5	-4.7	55.	292.2	16.5
650.0	11979.	-1.7	-24.0	10.	283.5	34.2
600.0	14052.	-6.0	-27.1	17.	275.4	29.5
550.0	16265.	-11.1	-31.2	17.	277.5	29.2
500.0	18641.	-16.6	-35.0	17.	274.9	32.8
450.0	21207.	-22.9	-40.9	17.	268.0	34.4
400.0	23909.	-30.0	-46.5	18.	267.3	41.5
350.0	27075.	-36.8	-57.4	10.**	279.8	50.0
300.0	30521.	-44.4			283.7	63.7
250.0	34402.	-54.4			280.1	76.4
200.0	39046.	-55.9			271.3	71.8
175.0	41837.	-54.7			264.3	75.3
150.0	45050.	-57.8			266.3	84.2
125.0	48782.	-62.6			273.2	86.1
100.0	53298.	-64.0			262.7	76.5
80.0	57780.	-64.4			265.6	56.4
70.0	60500.	-53.7			255.3	29.6
60.0	63640.	-63.7			234.0	23.7
50.0	67310.	-57.8			270.5	29.9
40.0	71909.	-59.6			287.6	32.9
30.0	77809.	-56.7				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.